KENDRIYA VIDYALAYA GACHIBOWLI, GPRA CAMPUS, HYD–32

PERIODIC TEST-02 EXAM SAMPLE PAPER 01 (2018-19)

SUBJECT: MATHEMATICS

BLUE PRINT FOR PERIODIC TEST–02 : CLASS VIII

Unit/Topic	VSA (1 mark)	Short answer (2 marks)	Short answer (3 marks)	Long answer (4 marks)	Total
Algebraic Expressions	1(1)	2(1)	3(1)	4(1)	**10(4)**
Visualizing Solid Shapes	--	--	--	4(1)	**4(1)**
Mensuration	1(1)	2(1)	3(1)	4(1)	**10(4)**
Exponents and Powers	1(1)	2(1)	3(1)	--	**6(3)**
Direct and Inverse Proportions	1(1)	2(1)	3(1)	4(1)	**10(4)**
Total	**4(4)**	**8(4)**	**12(4)**	**16(4)**	**40(16)**

MARKING SCHEME FOR PERIODIC TEST – 02 EXAM

SECTION	MARKS	NO. OF QUESTIONS	TOTAL
VSA	1	4	04
SA – I	2	4	08
SA – II	3	4	12
LA	4	4	16
GRAND TOTAL			**40**

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PERIODIC TEST-02 EXAM SAMPLE PAPER 01 (2018-19)

SUBJECT: MATHEMATICS **MAX. MARKS : 40**

CLASS : VIII **DURATION : 1½HRS**

General Instructions:

(i). **All** questions are compulsory.

(ii). This question paper contains **16** questions divided into four Sections A, B, C and D.

(iii). **Section A** comprises of 4 questions of **1 mark** each. **Section B** comprises of 4 questions of **2 marks** each. **Section C** comprises of 4 questions of **3 marks** each and **Section D** comprises of 4 questions of **4 marks** each.

(iv). Use of Calculators is not permitted

SECTION – A

1. Add: $5m(3 - m)$ and $6m^2 - 13m$.

2. Find the value of $\left(\frac{1}{2}\right)^{-2} + \left(\frac{1}{3}\right)^{-2} + \left(\frac{1}{4}\right)^{-2}$

3. Find the area of a rhombus whose diagonals are of lengths 10 cm and 8.2 cm.

4. The consumption of petrol is in in direct proportion with the corresponding distance travelled, find the value of x

Petrol in litres (x) :	4	8
Distance in km (y) :	60	x

SECTION – B

5. Subtract $5x^2 - 4y^2 + 6y - 3$ from $7x^2 - 4xy + 8y^2 + 5x - 3y$.

6. Express the following numbers in standard form.
(i) 0.0000000000085 (ii) 6020000000000000

7. Find the height of a cylinder whose radius is 7 cm and the total surface area is 968 cm^2.

8. A machine in a soft drink factory fills 840 bottles in six hours. How many bottles will it fill in five hours?

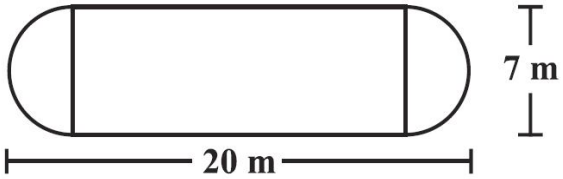
SECTION – C

9. Rashmi has a road map with a scale of 1 cm representing 18 km. She drives on a road for 72 km. What would be her distance covered in the map?

10. Simplify: (i) $(x^2 - 5)(x + 5) + 25$ (ii) $(a^2 + 5)(b^3 + 3) + 5$

11. Simplify: $\frac{25 \times t^{-4}}{5^{-3} \times 10 \times t^{-8}} (t \neq 0)$

12. The shape of a garden is rectangular in the middle and semi circular at the ends as shown in the diagram. Find the area and the perimeter of this garden



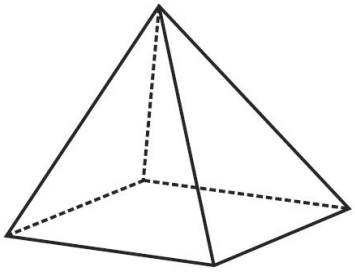
SECTION – D

13. Two persons could fit new windows in a house in 3 days.
(i) One of the persons fell ill before the work started. How long would the job take now?
(ii) How many persons would be needed to fit the windows in one day?

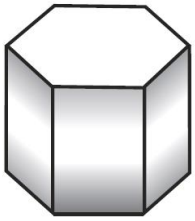
14. Using identities, evaluate (i) 102^2 (iv) $153^2 - 147^2$

15. The internal measures of a cuboidal room are 12 m × 8 m × 4 m. Find the total cost of white washing all four walls of a room, if the cost of white washing is Rs 5 per m^2. What will be the cost of white washing if the ceiling of the room is also white washed.

16. Verify Euler's formula for these solids:



(i)



(ii)